

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method of multicasting information to a set of clients comprising:

constructing a data topology associated with the set of clients based on performance information associated with the set of clients;

determining a primary client using performance information and a network location of the client, the network location relating to the data topology;

transmitting a first portion of the information to the primary client from a server;

instructing the primary client to forward the first portion of the information to a secondary client; and

in the event a new client is added to the set of clients:

receiving new performance information associated with the new client;

determining based at least in part on the new performance information whether the new client should is to be used instead of the first primary client to forward multicast information to the secondary client; and

in the event it is determined that the new client should is to be used instead of the first primary client to forward multicast information to the secondary client, designating the new client as a new primary client to be used to forward information a subsequently sent portion of the information, if any, to the secondary client.

2. (Original) A method of multicasting information to a set of clients as recited in claim 1 further including receiving performance information from the set of clients.

3. (Previously Presented) A method of multicasting information to a set of clients as recited in claim 1 further including pinging clients to determine the network location of the clients.

4. (Previously Presented) A method of multicasting information to a set of clients as recited in claim 1 wherein the information is streaming video.

5. (Currently Amended) A method of multicasting information to a set of clients comprising:

determining a performance parameter for each of the clients;

constructing a data topology associated with the set of clients based on the performance parameter associated with each of the clients;

selecting a subset of the clients to be primary clients based on the performance parameter and a network location relating to the data topology;

transmitting the information to the primary clients for retransmission to other clients in the set of clients; and

in the event a new client is added to the set of clients:

receiving new performance information associated with the new client; and

determining based at least in part on the new performance information whether the new client should is to be a primary client.

6. (Currently Amended) A method of multicasting information to a set of clients comprising:

constructing a data topology associated with the set of clients based on performance information associated with the set of clients;

determining a network location for each of the clients;

determining a primary client using performance information and the network location of each of the clients, the network location relating to the data topology;

selecting a subset of the clients to be primary clients based on the network location and the performance information;

transmitting the information to the primary clients for retransmission to other clients in the set of clients; and

in the event a new client is added to the set of clients:

receiving new performance information associated with the new client; and

determining based at least in part on the new performance information whether the new client should is to be a primary client.

7 – 17. (Canceled)

18. (Previously Presented) A server configured to multicast information to a set of clients comprising:

a client interface configured to transmit the information to a primary client from the server and to instruct the primary client to forward the information to a secondary client; and logic configured to:

construct a data topology associated with the set of clients based on performance information associated with the set of clients;

determine a primary client using performance information and a network location of the client, the network location relating to the data topology; and

in the event a new client is added to the set of clients, update the primary client determination based at least in part on a new performance information associated with the new client.

19.- 20. (Canceled)

21. (Currently Amended) A computer program product for multicasting information, the computer program product being embodied in a computer readable medium and comprising computer instructions for:

constructing a data topology associated with the set of clients based on performance information associated with the set of clients;

determining a primary client using performance information and a network location of the client, the network location relating to the data topology;

transmitting a first portion of the information to the primary client from a server;

instructing the primary client to forward the first portion of the information to a secondary client; and

in the event a new client is added to the set of clients:

receiving new performance information associated with the new client;

determining based at least in part on the new performance information whether the new client ~~should~~ is to be used instead of the first primary client to forward multicast information to the secondary client; and

in the event it is determined that the new client ~~should~~ is to be used instead of the first primary client to forward multicast information to the secondary client, designating the new client as a new primary client to be used to forward information a subsequently sent portion of the information, if any, to the secondary client.